

**CITY OF TRAVERSE CITY**  
**DEPARTMENT OF MUNICIPAL UTILITIES**  
**2018**  
**ANNUAL REPORT**





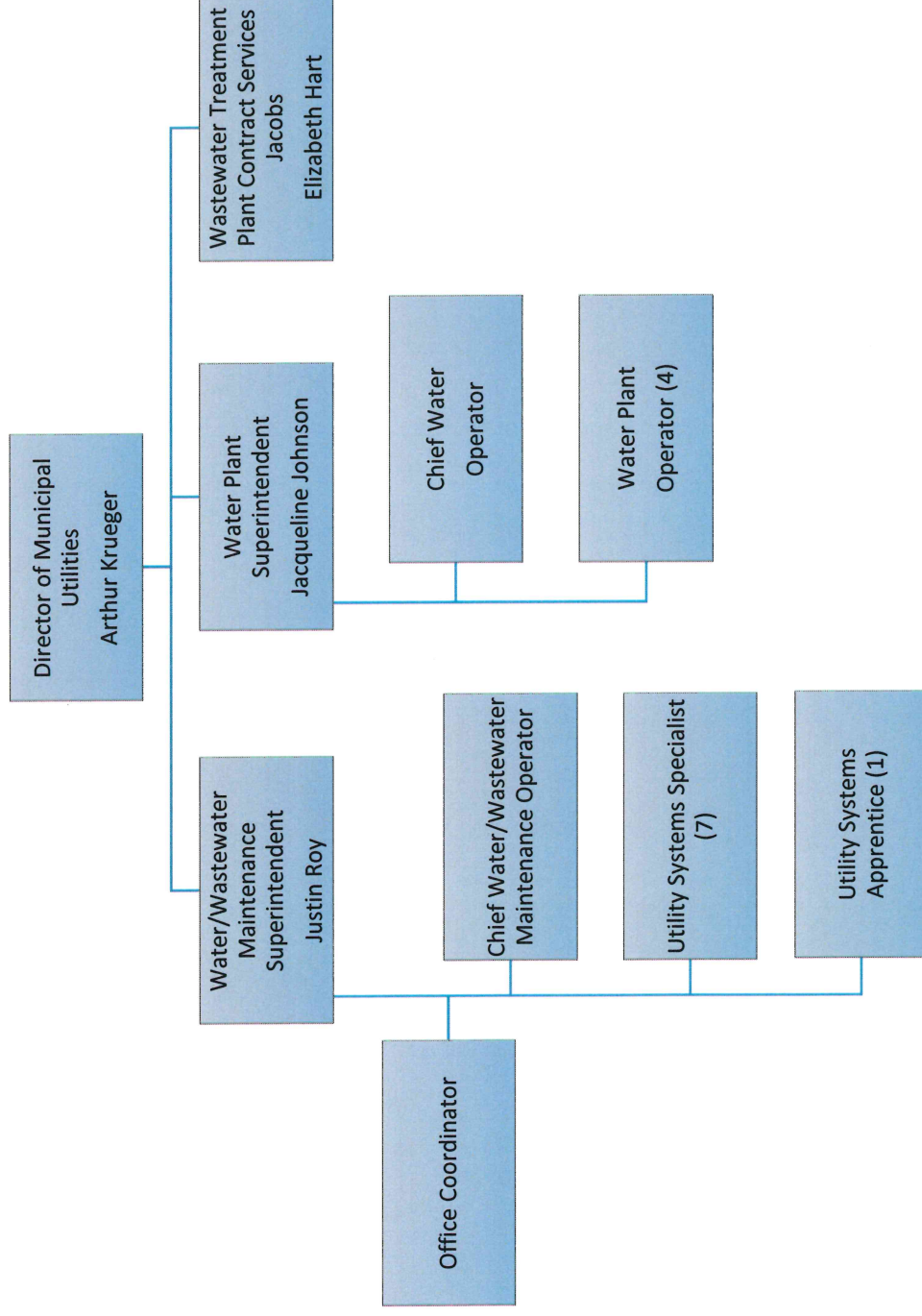
## **TABLE OF CONTENTS**

<b>Organizational Chart</b>	<b>Page 3</b>
<b>Mission Statement</b>	<b>Page 4</b>
<b>Water/Wastewater Maintenance Division</b>	<b>Page 5 - 6</b>
<b>Water Plant Division</b>	<b>Page 7 - 8</b>



# Department of Municipal Utilities

## Organizational Chart





# DEPARTMENT OF MUNICIPAL UTILITIES

## MISSION STATEMENT

*Preserve and enhance the safety, health, and quality of life for the people of  
Traverse City through the effective management and maintenance of its  
drinking water and wastewater infrastructure.*







## **WATER/WASTEWATER MAINTENANCE DIVISION**

### **Staffing:**

Superintendent – Justin Roy

Chief Water/Sewer Operator – Robert Zywicki

Office Coordinator

7 - Utility Systems Specialists

1 - Utility Systems Apprentice

1 - Seasonal Laborer

### **Maintenance/Operational Responsibilities:**

- 120 miles of pressurized water mains
- 80 miles of sanitary sewer mains
- 3,000 water system valves, 6" to 30" in diameter
- 1,000 fire hydrants
- 7,200 water meters
- 2,000 manholes



## **WATER/WASTEWATER MAINTENANCE DIVISION**

### **Customer Service Activities:**

- 520+ water service turn on/off requests
- 750+ hydrant flow tests
- 998 fire hydrants winterized
- 72 sewer calls; 17 City main related issues; 55 private property service line issues
- 10 miles of sanitary sewer cleaned
- 100+ water taps installed
- 340+ service calls (sampling, leaks, inspections, meter reads/re-reads, low pressure complaints, new meter installs, etc.)
- 3,300+ Miss Dig responses
- 13 water main break repairs
- 1 sewer main break repair
- 253 valves turned
- 2 miles of sanitary sewer televised and inspected
- Continued implementation of residential cross-connection program (1100 total completed by contractor; 250 residential inspections, 350 non-residential inspections, and 500 electronic residential surveys) to increase water system safety





## **WATER PLANT DIVISION**

### **Staffing:**

Superintendent – Jacqueline Johnson

Chief Water Operator – Vern Coblentz

4 - Water Treatment Operators (Rotate through Maintenance)

### **Maintenance/Operation Responsibilities:**

- 20 million gallons per day (MGD) rated Water Treatment Plant (5 high service pumps, numerous valves/meters, etc.)
- Low service pump building with intake system (4 pumps, 2 traveling screens, intake crib, etc.)
- 2 flocculation basins
- 5 sand & anthracite gravity filters
- 3 chemical feed systems (ferric sulfate, chlorine and fluoride)
- Plant compressed air system (operates valves, bubbler systems, etc.)
- 1 backwash pump to clean filters via backwashing process
- 2 lagoons for settling solids out of filter backwash water; recycled water discharges to East Bay (NPDES permit)
- 750 KW diesel generator in plant
- 275 KW diesel generator in the Wayne Hill Booster Station
- 4 water storage reservoirs (4 million gallons (MG) & 2 MG at Barlow Site; 1.3 MG at Wayne Hill & 1.5MG treated water storage reservoir at plant)
- 2 booster pump stations
- 7 pressure reducing valve vaults



## **WATER PLANT DIVISION**

### **Customer Service Activities:**

- Produced just under 2 billion gallons of safe, clean drinking water for the City, Garfield Township, Elmwood Township and Peninsula Township Residents.
- Completed between 50 and 75 water quality tests per week in MDEQ certified microbiology lab to ensure water that is produced is safe (lab located inside water plant)
- Completed a monthly, two year raw water testing program for the LT2 Enhanced Surface Water Treatment Rule to measure the presence of Cryptosporidium, Giardia and E. coli in the untreated water source (East Bay).
- Sampled daily (plant) and monthly (distribution system) water quality parameters to continue to collect of data after completion the chemical treatment change from Aluminum Sulfate to Ferric Sulfate in October 2017.
- Completed two rounds of lead and copper testing with results well below the Action Level.

### **Plant Related / Infrastructure Improvements:**

- Raw water crib intake structure inspection and zebra mussel removal
- High service pump #5 rewound with inverter duty windings and installed variable frequency drive
- Roof replacement for High Service area of treatment plant and low service building
- Wayne Hill reservoir inspection completed - good condition
- Wayne Hill pump #3 rebuilt
- Huron Hills Booster Station bladder replaced in pressure tank
- Automated security gate installed at water plant
- New phone system installed at water plant
- Installed new continuous read chlorine analyzers at water plant
- Began construction of new 2 million gallon reservoir adjacent to the Barlow 4 MG reservoir (See photos on pages 4 and 7)

## **End of Report**